

00T0E0" 62558460

Figure 1

Gai	...	M	X	R	D	H	H	H	H	Q	D	K	K	T	M	M	N	E	E	D	D	G	N	G	M	D	E	L	L	A	V	L	G	Y	K	V	R	S	S	E	M	A	D	V	A	O	K	L	E	O	L	E	M	54						
0803	E	A	G	G	S	S	G	G	G	S	S	A	D	M	G	S	C	K	D	K	V	M	A	G	A	X	G	E	E	X	V	D	E	L	L	A	A	L	G	Y	K	V	R	S	S	D	M	A	D	V	A	O	K	L	E	O	L	E	M	60

Gai	M	S	N	V	Q	E	D	D	L	S	L	A	T	E	T	V	H	Y	N	P	A	E	L	Y	T	W	L	D
0803	A	M	G	M	G	G	V	T	P	A	O	R	M	T	G	S	C	R	T	W	P	R	T	K	F	I	...	

Figure 2a

CCCCGACGGTCGCGGGCCGCGGCCAACGCGACGCCCGCGCTGCCGGTCGTCGTGG
TCGACACGCAGGAGGCCGGGATTCTGGCTGGTGCACGCGCTGCTGGCGTGCGCGG
AGGCCGTGCAGCAGGAGAACCTCTCCGCCGCGGAGGCGCTGGTGAAGCAGATAC
CCTTGCTGGCCGCGTCCCAGGGCGGCGCGATGCGCAAGGTCGCCGCTACTTCGG
CGAGGCCCTCGCCCGCCGCGTCTTCCGCTTCCGCCCGCAGCCGGACAGCTCCCTC
CTCGACGCCGCTTCGCCGACCTCCTCCACGCGCACTTCTACGAGTCCTGCCCTA
CCTCAAGTTCGCGCACTTCACCGCCAACCAGGCCATCCTGGAGGCGTTCGCCGGC
TGCCGCCGCGTGCACGTCGTCGACTTCGGCATCAAGCAGGGGATGCAGTGGCCC
GCACTTCTCCAGGCCCTCGCCCTCCGTCCCGGCGGCCCTCCCTCGTTCCGCCTCAC
CGGCGTCGGCCCCCGCAGCCGGACGAGACCGACGCCCTGCAGCAGGTGGGCTG
GAAGCTCGCCCAGTTCGCGCACACCATCCGCGTCGACTTCCAGTACCGCGGCC
TCGTCGCCGCCACGCTCGCGGACCTGGAGCCGTTTCATGCTGCAGCCGGAGGGCG
AGGAGGACCCGAACGAAGANCCCGANGTAATCGCCGTCAACTCAGTCTTCGAGA
TGCACCGGCTGCTCGCGCAGCCCGGCGCCCTGGAAAAGGTTCTTGGGCACCGTGC
GCCCCCGTGCGGCCCAGAATTCTACCGTGGTGGAAACAGGAGGCAAATCACA
ACTCCGGCACATTCTGGACCGCTTCACCGAGTCTCTGCACTACTACTCCACCAT
GTTTCGATTCCCTCGAGGGCGGCAGCTCCGGCGGCGGCCCATCCGAAGTCTCATCG
GGGGCTGCTGCTGCTCCTGCCGCCGCGGCACGGACCAGGTTCATNTCCGAGGTGT
ACCTCGGCCCGGCAGATCTGCAACGTGGTGGCCTGCGAGGGGGCGGAACGCACAG
ANCGCCACGAGACGCTGGGCCAGTGGCGGAACCGGCTGGGCAACGCCGGGTTCG
AGACCGTCCACCTGGGCTCCAATGCCTACAAGCAGGCGANACGCTGCTGGCGC
TCTTCGCCGGCGGCGGAACGGCTACANGTGGAAGAAAAGGAAGGCTGCCTGACGC
TGGGGTTGCACACNCCCCCTGATTGCCACCTCGGCATGGCGCCTGGCCGGGCCG
TGATCTCGCGAGTTTTGAACGCTGTAAGTACACATCGTGAGCATGGAGGACAACA
CAGCCCCGGCGGCCGCCCGGCTCTCCGGCGAACGCACGCACGCACGCACTTGA
AGAAGAAGAAGCTAAATGTCATGTCAGTGAGCGCTGAATTGCAGCGACCGGCTA
CGATCGATCGGGCTACGGGTGGTTCCGTCCGTCTGGCGTGAAGAGGTGGATGGA
CGACGAACTCCGAGCCGACCACCACCGGCATGTAGTAATGTAATCCCTTCTTCGT
TCCCAGTTCTCCACCGCCTCCATGATCACCCGTAAACTCCTAAGCCCTATTATTA
CTACTATTATGTTTAAATGTCTATTATTGCTATGTGTAATTCCTCCAACCGCTCAT
ATCAAAATAAGCACGGGCCGGAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAA
AAAAAA

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Figure 2b(1)

CGCGCAATGCTTAAGGTCNCCGCCTACTTCGGNGCAGGCCCTCGCCCCGCCGCGTC
TTCCGCTTCCGCCCCGACGCCGACAGCTCCCTCCTCGACGCCGCCTTCGCCGACCT
CCTCCACGCGCACTTCTACNAGTCCTGCCCCCTACCTCAAGTTCGCGCACTTCACCG
CCAATTAGGCCATCCTGGAGGCGTTCGCCGGCTGCCGCCGCGTGCACGTCGTCGA
CTTCGGCATCAAGCAGGGGATGCAGTGGCCCCGCACTTCTCCAGGCCCTCGCCCTC
CGTCCCGGCGGCCCTCCCTCGTTCCGCCTCACCGGCGTCGGCCCCCGCAGCCGG

Figure 2b(2)

ACCTCCTTCGTCGTCTNTNNGGTGGGGGCGCCAGGAGCTTATGTGGTGGAGGNTG
GCCCCNCCGGTCGCGACCGCGNCCTACGNGACGCCCGCGCTGCCGGTCGTCGTGG
TCGACACGCAGGAGGCCGGGATTCCGNTGGTNCACGCGCTGCTGGNGTGCGNNG
AGNCCGTGCAGCAGGAGAACCTCTCCGCCGCGGAGGCGCTNGTGAAGNAGATAC
CCNTGCTGGCCGAGTCCCAGGGCGGCGAGATGNGCAAGGTNGCAGCTTACTTNG
NAGANGCCCTCGCCCGCNGAGTGATTCCACTTANCGCCTGCAGCCGGANAGCTCC
GTCCTCGAANCCGCNTTNGCCGACCTCCTCCACGNGCACNTNTACGAGTC

Figure 2b(3)

TANTAGTCTCTCGGTGGGGGCGCCAGGAGCTCTNTGGTGGAGGCNCCCCGCCG
GTCGCGGCCGCGGCCAACGCGACGCCCGCGCTGCCGGTCGTCGTGGTCGACACG
CAGGAGGCCGGGATTCCGATGGTGCACGCGCTGNTGGCGTGCGCGGAGGCCGTG
AAACAGTTGAAGGNCCNCGCCTNNNNNCNCACAANNTGAAAGCCCCGNG

Figure 2b(4)

GGCTNCCNCCNCGTGACGTCGTCGACTTCGGCATCAAGCATGGGATGCANTGGC
NCGNACTTCTCCANGCCCTCGCCCTCCGTCCCGGCGGCCCTCCCTCGTTCCGCCTC
ACCGGCGTCGGCCCCCGCAGCCGGACGAGACCGACGCCCTGCANCAGGTGGGC
TGGAAGCTCGCCAGTTCGCGCACACCATCCGCGTCGACTTCCANTACCGTGGCC
TCGTCGCCGCCACGCTCGCGGACCTGGAGCCGTTTCATGCTGCANCCGGAGGGCGA
GGAGGACCCGAACGACGGAGCCCGAGGTAATCGCCGTCAACTCAGTCTTCGAGA
TGCACCGGGCTGCTCNCGCANCCCGGCGACNCTGGAANAA

Figure 2b(5)

CAAGANGCTAATCACAACCTCCGGGCACATTCCTGGACCGCTTCACCGAGTCTCTGC
ANTACTACTCCACCATGTTTCGATTCCCTCGAGGGCGGCAGCTCCGGCGGGCGGCCCC
ATCCGAAGTCTCATCGGGGGGCTGCTGCTGCTCCTGCCGCCGCCGGGCACGGACCAT
GTCATGTCCGAXGTGTACCTCGGGCCGGCAGATCTGCAACGTGGTGGCCTGCGAGG
GGGCGGAGCGCACANTANCGCCACGCAGACNCTGGGCCAGTGGCGTGAACCGGC
TGGGCAACGCCNGGTTCAANNNNCCGTCCACCTGGGCTCCAATGCCTACAATCAN
GCNNNCACGCTGCTGGCGCCTCTTCGCCC

Figure 2b(6)

TCGCCANTCGGCATGGNGCCTGGCCGGGGCCGTGATCTCGCGAGTTTTGAACGCTG
TAAGTACACATCGTGAGCATGGAGGACAACACAGCCCCGGCGGGCCGCCCGGGCT
CTCCGGCGAACGCACGCACGCACGCACTTGGAAGAAGAANAAGCTAAATGTCAT
GTCAGTGAGCGCTGAATTGCAACGACCGGCTACGATCGATCGGGCTACGGGTGG
TTCCGTCCGTCTGGCGTGAAGAGGTGGATGGACGACGAACCTCCGANCCGACCAC
CACCGGCATGTAGTAATGTAATCCCTTCTTCGTTCCCAGTTCTCCACCGCCTCCAT
GGATCACCCGTAAAACTCCTAAGCCCTAATTATNNACTAACTAATTATGTTTTAA
AATGTTCTAATTAATTGGCTATGTTGTAATNCCTCCAAACCGGCTCATTTTCAA
NATTAAGCCACGGGCCCCGGAACCTTTGGTTTAACAACCTCCCNATTGNAAAATTNA
AATNGAAATTTTTGGTTNC

Figure 2b(7)

GTTGGTGGNGGCGATTTGGGTACAAGGTGCGCGCCTCCGACATGGNGGANGTGG
GGCAGAAGCTGGAGCAGNTCGAGATGGCCATGGGGATGGGNGGCGTGGGCGCT
GGCGCCGCCCTGACGACAGGTTNGCCACCCGCNGGCCGCGGACACNGTGCANT
ACAACCCACACNGACNTGTCGTCTTGGGTGCGAGAGCATGCTGTGCGGAGCTAAANG
AGCCGCNGCCGCCCTCCCGCCCCGCCCCGAGCTCAACGCCTCCACCTCCTCCAC
CGTCACGGGCAGCGGCGGCTACTTCGATAACCCTCCCTG

Figure 2b(8)

TGATGGNGGGAGNTTANGGGTTANAAATGTGGGGGANTTCCGAANNNGGTGAGG
ANATATNNTCAGAAGTTGGAGCAGATGAGAGATNGCTGATGGGGATAGGGTAGG
NGTGGGTGCCGGTGCNGCCCCCNAGGANAGATTGGCCACCCACTTAGCAAGTGG
ANACCGTGGATTACNACCCACACAGACCTGTCGTGGTTGGGTTTGAGAGCGTGGTG
TGGGAGCTGAACGGGCGNGCGGCGTGCCCCCTCCCGCCCCGCCCGCAGCTCAACGCC
TCCACCTCCTCCACCGTACACGGGCAGCGGCGGCTAGTTCGATCTCCCGCCCTCC
GTCGACTCCTCCAGCAGCATNTANGCGCTGCGGCGGATCCCTNCCCAAGCNNGC
GNNGNCCGAGCCGTGTAN

5/22

Figure 2b(9)

TTTCANTTTCNTCCTTTTTTCTTCTTTTTTCCAACCCCCGGCCCCCNGACCCTTGGAT
CCAAATCCCGAACCCGCCCCCAGAACCNGGAACCGAGGCCAAGCAAAAGNTTTG
CGCCAATTATTGGCCAGAGATAGATAGAGAGGCGAGGTAGCTCGCGGATCATGA
AGCGGGAGTACCAGGACGCCGGAGGGAGCGGCGGCGGCGGTGGCGGCATGGGT
TCGTCCGAGGACAAGATGATGGTGTCGGCGGCGGCGGGGGAGGGGGAGGAGGT
GGACGAGCTGCTGGCGGCGCTCGGGTACAAGGTGCGCGCCTCCGACATGGCGGA
CGTGGCGCAGAAGCTGGAGCAGCTCGAGATGGCCATGGGGATGGGCGGCGTGGG
CGCCGGCGCCGCCCCCGACGACAGCTTCGCCACCCACCTCGCCACGGACACCGTG
CAGTACAACCNCCCNGACC

Figure 2b(10)

GGACGACGACCTCCGAGCCGACCACCACCGGCATGTAGTAATGTAATCCCTTCTT
CNTTCCCAGTNCTCCACCGCCTCCATGATCACCCGTAAAACTCCTAAGCCCTATT
ATTACTACTATTATGTNTAANTGTCTATTATTGCTANGTGTAATTCCTCCAACCGC
TCATATCAAAAATAAGCACGGGCGCGACTTTGTTANCAGCTCCAATGAGAATGAA
ATGAATTTTGTACGCAAGGCACGTCCAAAACTGGGCTGAGCTTTGTTCTGTTCTG
TTATGTTTCATGGTGCTCACTGCTCTGATGAACATGATGGTGCTCCAATGGTGGC
TTTGCAATTGTTGAAACGTTTGGCTTGGGGGACTTGNGTGGGTGGGTGCATGGGG
ATGAATATTCACATCNCCGGATTAAAATTAAGCCATCCCGTTGGCCGTCCTTTGA
ATANCTTGCCCNAAACGAAATTTCCCCCNATC

Figure 2b(11)

AAANCCTANAANATATAGAGGCGATGTNGCNCCCCNATCANNAAACNGGATTACN
GNAACNCCNGAAGGAGCGGCGGCGGCGGTGGCAGCATNGGCTCGTCCGATGACA
AATATCATGGTGTGCGGCGGCGGCGGGGACGGGGAGGAGGTGCACAACNTTTNG
GCGGGACTCGNGTACCACGTGNACGGTGCCGCNCTNGNGGATNTGGCCCTNGAA
GATGGGCCACCTCCAAA

Figure 2b(12)

CGGCGGCCCGTGGCGGCATGGGCTCGTCCGAGGACNAGATGATGGTGTCTGGCG
GCGGCGGGGGANGGGGATGATGTGGACTATCTGCTGGCGGCGCTCGGGTACAAG
GTGCGCGCCTCCGACAGGCGGAGCCCGCGCATAAAGTGGAGCCGCTCGAGATGGC
CNTGGGGATNGGCGGCNTGGGCNCCNGCGCCTCCCCCG

Figure 2b(13)

TGGNGCTCGGGTGNCCCCGTGCGCGCCTCCGACATGGCGGGACGTGGCGCAGAAC
TGGAGCAGCTCGAGATGGCCATGGGGATGGGCGGCGTGGGCGCCGGCGCCGCC
CCGACGACAGCTTCGCCACCCACCTCGCCACGGACACCGGCACACAACCCACCG
ACCTGTCGTCTTGGGTCGAGAGCATGCTGTCGGATCTCNACGCGCCNCCGNCGCC
CCTCCCGCCCGC

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Figure 2c(1)

ANNTTGTNCNNNNNTACATCCCATGNGCCGCGCNATGCTNAAGGTCGCCGCCTACT
TCGGCGCAGGCCCTCGCCCGCCGCGTCTTCCGCTTCCGCCCGCAGCCGGACAGCT
CCCTCCTCGACGCCGCCTTCGCCGACCTCCTCCACGCGCACTTCTACGAGTCCTGC
CCCTACCTCAAGTTCGCGCACTTCACCGCCAACCAGGCCATCCTGGAGGGCGTTTCG
CCGGCTGCCGCCGCGTGCACGTCGTCGACTTCGGCATCAAGCAGGGGATGCAGT
GGCCCGCACTTCTCCAGGCCCTCGCCCTCCGTCCCGGCGGCCCTCCCTCGTTCCGC
CTCACCGGCGTTTCGGCCCCCGCAGCCGGACGANAACGACGCCCTG

Figure 2c(2)

NTTCCCCGGCAGTTAAAAGCNTCCACTTCTTCCACCGTCACGGGCAGCGGCGGNT
ACTTNGATCTCCCGCCCTCAGTCGACTCCTCCAGCAGCATCTACGCGCTGCGGCC
GATCCCCTCCCCGGCCGGCGCGACGGCGCCGGCCGACCTGTCCGCCGACTCCGTG
CGGGATCCCAAGCGGATGCGCACTGGCGGGAGCAGCACCTCGTCGTCATCCTCCT
CATANTCGTCTCTCGGTGGGGGCGCCAGGAGCTCTGTGGTGGAGGCNGCCCCGCC
GGTCGCGGCCGCGGCCAACGCGACGCCCGCGCTGCCGGTCGTCGTGGTTCGACAC
GCAGGAGGCCGGGATTTCGGATGGTGCACGCGCTGNTGGCGTGCGCGGAGGCCGT
GNAAGCAGTTNGAAGGGCCTNCGCCGTGNATNNCGCAACAANNNGGAAGNCCN

Figure 2c(3)

CANCCCGCTGNTCGCCACCTCGGCATGGCGCCTGGCCGGGGCCGTGATCTCGCGAG
TTTTGAACGCTGTAAGTACACATCGTGAGCATGGAGGACAACACAGCCCCGGCG
GCCGCCCGGCTCTCCGGCGAACGCGACGCGACGCACTTGAAGAAGAAGAAG
CTAAATGTCATGTCAGTGAGCGCTGAATTGCANCGACCGGCTACGATCGATCGG
GCTACGGGTGGTTCCGTCCGTCTGGCGTGAAGAGGTGGATGGACGACGAACTCC
GANCCGACCACCACCGGCATGTAGTAATGTAATCCCTTCTTCGTTCCCAGTTTCTC
CACCGCCTCCATGATCACCCCGTAAAACTCCTAAGCCCTATNNNTTACTACNATT
AATGTTTTAAANTGTTCTANTAATTGCTATGNTGTTTATTNCC

Figure 2c(4)

TATCGAAGTAGCCGCCGCTGCCCNTGCACGGTGGAGGAGGTGGAGGGCGTTGAGC
TGCGGGGGCGGGCGGGAGGGGCGGCGGCGGCACGTTNAGCTCCGACAGCATGCTC
TCGACCCAAAACNACAGGTCGGTGGGGTTGTAGTGCACGGTGTCCGTGGCGAGG
GGGTGGCNAACTGTCTGTCAGGGGGCGGGCGCCNGCGCCACNCCGCCCATCCCCA
TGGCCATCTCGANCTGCTCCAGCTTCTGCGCCACTTCNCCATGTCNGATGCGCG
CNCCTTGTACCCGA

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Figure 2c(5)

ACGGCGCGGNCCNCGCNNGCTTGGGAGGGGATCGGCCGCGAGCGCNTANATGCTG
CTGGAGGAGTCGACGGAGGGCGGGAGATCGAACTAGCCGCCGCTGCCCCGTGTAC
GGTGGAGGAGGTGGAGGCGTTGAGCTGCGGGGCGGGCGGGAGGGGCGAGCNGCT
GCACGTTNAGCTCCACACCCACGTCTCTCAACCCAACCACGACNCGTCTGTGGGG
TNGTAATNCACGGTNTCCCTNGCTANGTGGGTGGCCAATCTNT

Figure 2c(6)

CACGGTGTCCGTGGCGAGGTGGGTGGCGAAGCTGTCGTCGGGGGCGGGCGCCGGC
GCCACGCGCCCATCCCCATGGCCATCTCGAGCTGCTCCAGCTTCTGCGCCACG
TCCGCCATGTGCGGAGGCGCGCACCTTGTACCCGAGCGCCGCCAGCAGCNCGNCC
ACCTCCTCCCCCTCCCCCGCCGCCGCCGACACCATCATCTTGTCCTCGGACGANCC
CATGCCGCCACCGCCGCCGCCGCTCCCTCCGGCGTCTTGGTACTCCCGCTTCATG
ATCCGCGAGCTACCTCGCCTCTCTATCTATCTCTGGCCAATAATTGCGCA

Figure 2c(7)

GACCACCACCGGCATGTAGTAATGTAATCCCTTCTTCNTTCCCAGTTCTCCACCGC
CTCCATGATCACCCGTAAACTCCTAAGCCCTATTATTACTACTATTATGTNTAA
ATGTCTATTATTGCTANGTGTAATTCCTCCAACCGCTCATATCAAAATAAGCACG
GGCCGGACTTTGTTAGCAGCTCCAATGAGAATGAAATGAATTTTGTACGCAAGGC
ACGTCCAAACTGGGCTGAGCTTTGTTCTGTTCTGTTATGTTTCATGGTGCTCACTG
CTCTGATGAACATGATGGTGCCTCCAATGGGTGGCTTTGCAATTGTTGAACGTTT
TGGCTTGGGGGACTTGGTGNNTGGTGCATGGGAATGAANATTCCACATCCNCNG
GAATTAAATTAGCCCATCCCG

9/22

Figure 3a

TTTCANTTTCNTCCTTTTTTCTTCTTTTTTCCAACCCCCGGCCCCCNGACCCTTGGATCC
AAATCCCGAACCCGCCCCAGAACCNNGGAACCGAGGCCAAGCAAAGNTTTGEGEE
AATTATTGGCCAGAGATAGATAGAGAGGCGAGGTAGCTCGCGGATCATGAAGCGGG
AGTACCAGGACGCCGGAGGGAGCGGCGGCGGCGGTGGCGGCATGGGTTCGTCCGAG
GACAAGATGATGGTGTCTGGCGGGCGGCGGGGGAGGGGGAGGAGGTGGACGAGCTGC
TGGCGGCGCTCGGGTACAAGGTGCGCGCCTCCGACATGGCGGACGTGGCGCAGAAG
CTGGAGCAGCTCGAGATGGCCATGGGGATGGGCGGCGTGGGCGCTGGCGCCGCCCC
TGACGACAGGTTNGCCACCCGCNGGCCGCGGACACNGTGCANTACAACCCACNGA
CNTGTCTGTCTTGGGTCGAGAGCATGCTGTCTGGAGCTAAANGAGCCGCNGCCGCCCC
TCCCGCCCCGCCCGCAGCTCAACGCCTCCACCGTCACGGGCAGCGGCGGNTACTTNG
ATCTCCCGCCCTCAGTCGACTCCTCCAGCAGCATCTACGCGCTGCGGCCGATCCCCT
CCCCGGCCGGCGCGACGGCGCCGGCGGACCTGTCCGCCGACTCCGTGCGGGATCCC
AAGCGGATGCGCACTGGCGGGAGCAGCACCTCGTCTCATCTCTCATANTCGTCT
CTCGGTGGGGGCGCCAGGAGCTCTGTGGTGGAGGCGNGCCCCGCCGGTCTGCGGCCGC
GGCCAACGCGACGCCCGCGCTGCCGGTCTGTCTGGTTCGACACGCAAGGAGGCCGGGA
TTCGGCTGGTGCACGCGCTGCTGGCGTGCAGCGGAGGCCGTGCAGCAGGAGAACCTC
TCCGCCGCGGAGGCGCTGGTGAAGCAGATAACCTTGCTGGCCGCGTCCCAGGGCGG
CGCGATGCGCAAGGTGCGCCGCTACTTCGGCGAGGCCCTCGCCCGCCGCGTCTTCCG
CTTCCGCCCGCAGCCGGACAGCTCCCTCCTCGACGCCGCTTCGCCGACCTCCTCCA
CGCGCACTTCTACGAGTCCTGCCCTACCTCAAGTTCGCGCACTTCACCGCCAACCA
GGCCATCCTGGAGGCGTTCGCCGGCTGCCGCCGCGTGCACGTCTGCTGACTTCGGCAT
CAAGCAGGGGATGCAGTGGCCCGCACTTCTCCAGGCCCTCGCCCTCCGTCCCAGGCGG
CCCTCCCTCGTTCCGCCCTACCGGCGTCCGGCCCCCGCAGCCGGACGAGACCGACGC
CCTGCAGCAGGTGGGCTGGAAGCTCGCCAGTTCGCGCACACCATCCGCGTCTGACTT
CCAGTACCGCGGCCCTCGTCTGCCGCCACGCTCGCGGACCTGGAGCCGTTTCATGCTGCA
GCCGGAGGGCGAGGAGGACCCGAACGAAGANCCCCGANGTAATCGCCGTCAACTCA
GTCTTCGAGATGCACCGGCTGCTCGCGCAGCCCGGCGCCCTGGAAAAGGTTCTTGGG
CACCGTGCGCCCCCGTGCGGCCCGAGAATTCTNTACCGTGGTGGAACAGGAGGCAA
ATCACAACTCCGGCACATTCTCTGGACCGCTTCACCGAGTCTCTGCACTACTACTCCA
CCATGTTTCGATTCCCTCGAGGGCGGCAGCTCCGGCGGGCGGCCCATCCGAAGTCTCAT
CGGGGGGCTGCTGCTGCTCCTGCCGCCGCGGCCACGGACAGGTTCATNTCCGAGGTGT
ACCTCGGCCGGCAGATCTGCAACGTGGTGGCCTGCGAGGGGGCGGAACGCACAGAN
CGCCACGAGACGCTGGGCCAGTGGCGGAACCGGCTGGGCAACGCCGGGTTCGAGAC
CGTCCACCTGGGCTCCAATGCCTACAAGCAGGCGANACGCTGCTGGCGCTCTTCGC
CGGCGGCGAACGGCTACANGTGGAAGAAAAGGAAGGCTGCCTGACGCTGGGGTTGC
ACACNCCCCCTGATTGCCACCTCGGCATGGCGCCTGGCCGGGGCCGTGATCTCGCGA
GTTTTGAACGCTGTAAGTACACATCGTGAGCATGGAGGACAACACAGCCCCGGCGG
CCGCCCGGCTCTCCGGCGAACGCACGCACGCACGCACTTGAAGAAGAAGAAGCTA
AATGTCATGTCAGTGAGCGCTGAATTGCAGCGACCGGCTACGATCGATCGGGCTAC
GGGTGGTTCCGTCCGTCTGGCGTGAAGAGGTGGATGGACGACGAACCTCCGAGCCGA
CCACCACCGGCATGTAGTAATGTAATCCCTTCTTCGTTCCCAGTTCTCCACCGCCTCC
ATGATCACCCGTAAACTCCTAAGCCCTATTATTACTACTATTATGTTTAAATGTCTA
TTATTGCTATGTGTAATTCCTCCAACCGCTCATATCAAAATAAGCACGGGCCGGACT
TTGTTANCAGCTCCAATGAGAATGAAATGAATTTGTACGCAAGGCACGTCCAAAA
CTGGGCTGAGCTTTGTTCTGTTCTGTTATGTTTCATGGTGCTCACTGCTCTGATGAACA
TGATGGTGCCTCCAATGGTGGCTTTGCAATTGTTGAAACGTTTGGCTTGGGGGACTT
GNGTGGGTGGGTGCATGGGGATGAATATTACATCNCCGGATTAAATTAAGCCAT
CCCGTTGGCCGTCCTTTGAATANCTTGCCCNAAACGAAATTTCCCCCNATC

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PRETTYBOX of: My.Msf{*} August 7, 1997 13:06:42.76
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Gai Rht M I E R R G S S R I M	K R D H H H H Q . K R E Y Q D A G G S D G G G G G M G S E	D K K T M M M N E E D D K M M V S A A A G	D N G M D E L L A E G E E V D E L L A	V L G Y K V R S S E A L G Y K V R A S D	41 60
Gai Rht	M A D V A Q K L E O M A D V A Q K L E O	L E V M M S L E M A M G M G V	. . . N V Q E D D G A G A A P D R Q V	L S Q L A T E T V H X H P X A A D T V X	Y N P A E L Y T W L Y N P T D X S S W V	D S M L T D L N P P E S M L S E L X E P	93 120
Gai Rht	X P P L P P A P Q L	N A S T V T G S G G . . . . .	. . . . . S Y X D L P P S V D S	S N A E Y D L K A I S S S I Y A L R P I	P G D A I L N Q F A P S P A G A T A P A	I D S A S S S N Q . D L S A D S V R D P	123 180
Gai Rht	. . . . . G G G D T K R M R T G G S S T	Y T T N K R L K C S S S S S S X S S L	N G V V E G G G A R S S V V E	. . . . T T T A T A A P P V A A A A N	A E S T R H V V L V A T P A L P V V V V	D S Q E N G V R L V D T Q E A G I R L V	169 240
Gai Rht	H A L L A C A E A V H A L L A C A E A V	O K E N L T V A E A O Q E N L S A E A	L V K Q I G F L A V L V K Q I P L L A A	S Q I G A M R K V A S Q G G A M R K V A	T Y F A E A L A R R A Y F G E A L A R R	I Y R L S P S Q . . V F R F R P Q P D S	227 300
Gai Rht	S P I D H S L S D T S L L D A A F A D L	L Q M H F Y E T C P L H A H F Y E S C P	Y L K F A H F T A N Y L K F A H F T A N	Q A I L E A F Q G K Q A I L E A F A G C	K R V H V I D F S M R R V H V V D F G I	S Q G L Q M P A L M K O G M Q M P A L L	287 360
Gai Rht	Q A L A L R P G G P Q A L A L R P G G P	P V F R L T G I G P P S F R L T G V G P	P A P D N F D Y L H P Q P D E T D A L Q	E V G C K L A H L A Q V G W K L A Q F A	E A I H V E F E Y R H T I R V D F Q Y R	G F V A N T L A D L G L V A A T L A D L	347 420
Gai Rht	D A S M L E L R P S E P F M L Q P E G E	E I E S V E D P N E X P X V I	A V N S V F E L H K A V N S V F E M H R	L L G R P G A I D K L L A A Q P G A L E K	V L G . V V N Q I K V L G H R A P P C G	P E I F T V V E . Q P E F X T V V E T O	400 480
Gai Rht	E S N H N S P I F L E A N H N S G T F L	D R F T E S L H Y Y D R F T E S L H Y Y	S T L F D S L E G V S T M F D S L E G G	P S G Q S S S G G G P S E V S	. . . . . S G A A A P A A A	. . . . . D K V M S E V Y G T D Q V X S E V Y	442 540
Gai Rht	L G K Q I C N V V A L G R Q I C N V V A	C D G P D R V E R H C E G A E R T X R H	E T L S Q W R N R F E T L G Q W R N R L	G S A G F A A A H I G N A G F E T V H L	G S N A F K Q A S M G S N A Y K Q A X T	L L A L F N G G E G L L A L F A G G E R	502 600
Gai Rht	Y R V E E S D G C L L X V E E K E G C L	M L G W H T R P L I T L G L H T X P L I	A T S A W K L S T N A T S A W R L A G P	532 630			

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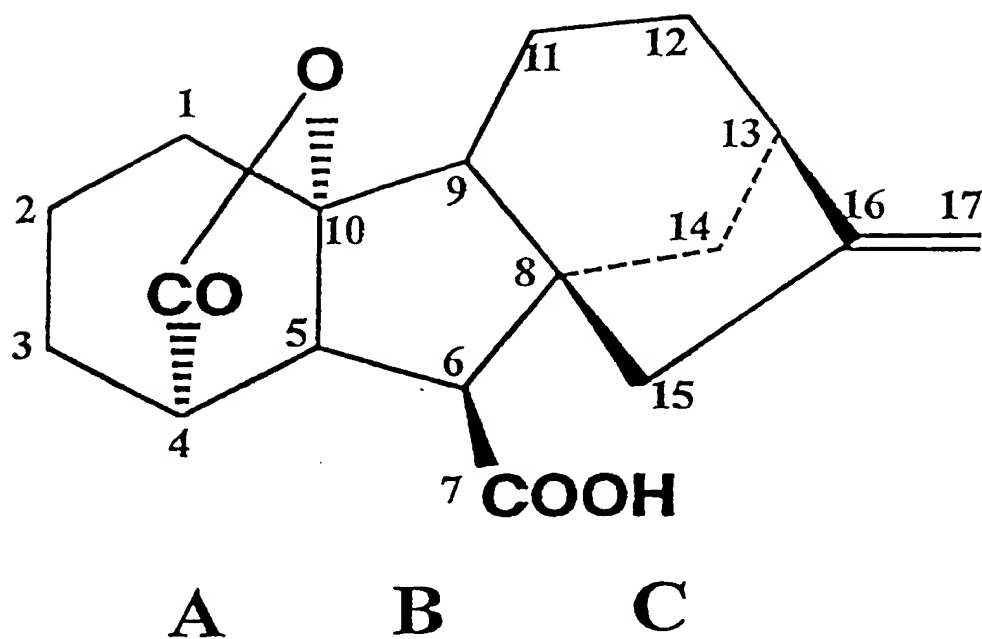
Figure 4a

ACGCGTCCGGAAGCCGGCGGGAGCAGCGGCGGCGGGAGCAGCGCCGATATGGG
GTCGTGCAAGGACAAGGTGATGGCGGGGGCGGCGGGGGAGGAGGAGGACGTCT
ACGAGCTGCTGGCGGGCGCTCGGGTACAAGGTGCGGTTCGTCCGACATGGCCGACG
TCGCGCAGAANCTGGAGCAGCTGGAGATGGCCATGGGGATGGGCGGCGTGAGCG
CCCCCGGCGCCGCGGATGACGGGTTTCGTGTCGCACCTGGCCACGGACACCGTGC
ACTACAACCCCTCGGACCTCTCCTCCTGGGTTTCNGAGAGCATGCTTTCGGAGTTA
AAGGCGCCGTTGCCCCCTTATCCCGCCAGGCGCCGCGGGCTGCCCCGCCATGCTTT
CCAACTTCGTCCACTGTCACCGGCGGCGGTGGTAGCGGCTTCTTTGAANTCCAG
CCGCTGCCGANTCGTCGAGTAGCACNTACGCCCTCAGGCCGATCTCCTTACCGGT
GGTGGCGACGGCTGACCCGTCGGCTGCTGACTCGGCGAGGGACACCAAGCGGAT
GCGCACTGGCGGGCGGCAGCACGTCGTCGTCCTCATCGTCGTCTTCCTCTCTGGGC
GGTGGGGCCTCGCGGGGCTCTGTGGTGGAGGCTGCTCCGCCGGCGACGCAAGGG
GCCGCGGCGGCGAATGCGCCCGCCGTGCCGGTTGTGGTGGTTGACACGCAGGAG
GCTGGNATCGGGCCTGGTGC

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Wheat	I E R G S S R I M	K R E Y Q D A G G S	G G G G G M G S E	D K M M M S A A A G	E G E E V D E L L A	A L G Y K V R A S D	60
Rice	.. . . . . M	T R P E A G G S S G	G G S S A D M G S C	K D K M M A G A A G	E D E D U D E L L A	A L G Y K V R S S D	50
Gai	.. . . . . M	K R D H H H H Q D	.. . . . .	K K T M M N E E E E	E G N G M D E L L A	V L G Y K V R S S E	41
Wheat	M A D V A O K L E O	L E M A N G M G G V	L E M A N G M G G V	G A G A A P D R Q V	X H P X A A D T V X	E S M L S E L X E P	120
Rice	M A D V A O K L E O	L E M A N G M G G V	L E M A N G M G G V	S A P G A A D D G F	V S H L A T D T V H	E S M L S E L K A P	110
Gai	M A D V A O K L E O	L E M A N G M G G V	L E M A N G M G G V	.. . . N V Q E D D	L S Q L A T E T V H	E S M L T E L N P P	93
Wheat	X P P L P P A P Q	L N A S	T V T G S G . G Y	X D L P P S V D S S	S S I Y A L R P I P	S P A G A T A P A D	171
Rice	L P L I P P C A A G	L P A M L S P T S S	T V T G G G C S C F	F E X P A A A X S S	S S T Y A L R P I S	L P V V A T A D P S	170
Gai	.. . . . .	.. . . . .	.. . . . .	.. . . . . S S	N A E V D L K P A I P	G D A I L N . . Q	112
Wheat	L S A D S V R D P K	R M R T G G S S T S	S S S S S X S S L G	G G A . R S S V V E	A A P P V . A A A	A N A T P A L P V V	228
Rice	A A D S A R D T K	R M R T G G S S T S	S S S S S S S S L G	G G A S R G S V V E	A A P P A T Q G A A	A A N A P A V P V V	229
Gai	F A I D S A . . . .	.. . . . .	S S S N Q G G G G	D T Y T T N K R K K	C S N G V V E T T	A T A E S T R H V V	157
Wheat	V V D T Q . E A G	I R L V H A L L A C	A E A V Q Q E N L S	A A E A L V K O I P	L L A A S O G G A M	R K V A A Y F G E A	286
Rice	V V D T Q E E A G	I R L V H A L L A C	X E A V Q Q E N L S	.. . . . .	.. . . . .	.. . . . .	258
Gai	V V D S Q . . E N G	M R L V H A L L A C	A E A V Q K E N L T	V A E A L V K O I G	F L A V S Q I G A M	R K V A T Y F A E A	215
Wheat	L A R R V F R F R P	Q P D S E L L D A A	F A D L L H A H E Y	E S C P Y L K F A H	P T A N Q A I L E A	F A G C R R V H V V	346
Rice	.. . . . .	S Q . . S P I D H S	L S D T L Q M H E Y	E T C P Y L K F A H	P T A N Q A I L E A	F Q G K K R V H V I	258
Gai	L A R R I Y R L S P	.. . . . .	.. . . . .	.. . . . .	.. . . . .	.. . . . .	273
Wheat	D E G I K O G M O W	P A L L O A L A L R	P G G P P S F R L T	G V G P P Q P D E T	D A L Q Q V G W K L	A Q F A H T I R V D	406
Rice	.. . . . .	.. . . . .	.. . . . .	G I G P P A P D N F	D Y E H E V G C K L	A H L A E A I H V E	258
Gai	D E S M S O G L O W	P A L M O A L A L R	P G G P P V F R L T	.. . . . .	.. . . . .	.. . . . .	333
Wheat	F O Y R G L V A A T	L A D L E P F M L Q	P E G E E D P N E X	P X V I A V N S V F	E M H R L L A Q P G	A L E K V L G H R A	466
Rice	.. . . . .	.. . . . .	.. . . . .	.. . . . .	.. . . . .	.. . . . .	258
Gai	F E Y R G F V A N T	L A D L D A S M L E	L R P S E I E S . .	.. . . V A V N S V F	E L H K L L G R P G	A I D K V L G . V V	387
Wheat	P P C G P E F X T V	V E T O E A N H N S	G T F L D R F T E S	L H Y Y S T M F D S	L E G G S S G G G P	S E V S S G A A A A	526
Rice	.. . . . .	.. . . . .	.. . . . .	.. . . . .	.. . . . .	.. . . . .	434
Gai	N Q I K P E I F T V	V E . Q E S N H N S	P I F L D R F T E S	L H Y Y S T L E D S	L E G V P S G Q . .	.. . . . .	258
Wheat	P A A A G T D Q V X	S E V Y L G R O I C	N V V A C E G A E R	T X R H E T L G O W	R N R L G N A G F E	T V H L G S N A Y K	586
Rice	.. . . . .	.. . . . .	.. . . . .	.. . . . .	.. . . . .	.. . . . .	258
Gai	.. . . . . D K V M	S E V Y L G K O I C	N V V A C D G P D R	V E R H E T L S O W	R N R F G S A G F A	A A H I G S N A F K	488
Wheat	O A X T L L A L F A	G G E R L X V E E K	E G C L T L G L H T	X P L I A T S A W R	L A G P 630	.. . . . .	258
Rice	.. . . . .	.. . . . .	.. . . . .	.. . . . .	.. . . . .	.. . . . .	258
Gai	O A S M L L A L F N	G G E G Y R V E E S	D G C L M T G W H T	R P L I A T S A W K	L S T N 532	.. . . . .	258

13/22

Figure 5

09485529-030100

Figure 6a

GTCGACCCACGCGTCCGGAAGCCGGCGGGAGCAGCGGGCGGGGAGCAGCGCC
GATATGGGGTCGTGCAAGGACAAGGTGATGGCGGGGGCGGCGGGGGAGGAGGA
GGACGTCGACGAGCTGCTGGCGGCGCTCGGGTACAAGGTGCGGTCTGCCACAT
GGCCGACGTCGCGCAGAAGCTGGAGCAGCTGGAGATGGCCATGGGGATGGGCGG
CGTGAGCGCCCCCGGCGCCGCGGATGACGGGTTCGTGTGCGACCTGGCCACGGA
CACCGTGCACTACAACCCCTCGGACCTCTCCTCCTGGGTCGAGAGCATGCTTTCC
GAGCTCAACGCGCCGCTGCCCCCTATCCCGCCAGCGCCGCGGGCTGCCCCCCATG
CTTCCACCTCGTCCACTGTACCGGGCGGCGGTGGTAGCGGCTTCTTTGAACTCCC
AGCCGCTGCCGACTCGTCGAGTAGCACCTACGCCCTCAGGCCGATCTCCTTACCG
GTGGTGGCGACGGCTGACCCGTCGGCTGCTGACTCGGCGAGGGACACCAAGCGG
ATGCGCACTGGCGGGCGGCAGCACGTCTGTCGTCCTCATCGTCGTCTTCTCTCTGG
GCGGTGGGGCCTCGCGGGGCTCTGTGGTGGAGGCTGCTCCGCCGGCGACGCAAG
GGGCCGCGGCGGCGAATGCGCCCCGCCGTGCCGTTGTGGTGGTTGACACGCAGG
AGGCTGGGATCCGGCTGGTGACGCGTTGCTGGCGTGCGCGGAGGCCGTGCAGC
AGGAGAACTTC

Figure 6b

RPTRPEAGGSSGGSSADMGCKDKVMAGAAGEEEDVDELLAALGYKVRSSDMAD
VAQKLEQLEMAMGMGGVSAPGAADDGFFVSHLATDTVHYNPDLSSWVESMLSELN
APLPPIPPAPPAARHASTSSTVTGGGGSGFFELPAAADSSSSTYALRPISLPVVATADPS
AADSARDTKRMRTGGGSTSSSSSSSSSLGGGASRGSVVEAAPPATQGAAAANAPAVP
VVVVDTQEAGIRLVHALLACAEAVQOENF

09-16-85

15/22

Figure 7a

GCCAGGAGCTCTGTGGTGGAGGGETGEEEEGEEGGTEGEGGEEGEGGGCCAAACGCG
ACGCCCCGCGCTGCCGGTCGTCTGTGGTCGACACGCAGGAGGCCGGGATTCTGGCTG
GTGCACGCGCTGCTGGCGTGC GCGGAGGCCGTGCAGCAGGAGAACCTCTCCGCC
GCGGAGGCGCTGGTGAAGCAGATACCCTTGCTGGCCGCGTCCCAGGGCGGCGCG
ATGCGCAAGGTCGCCGCCTACTTCGGCGAGGCCCTCGCCCCGCCGCTCTTCCGCT
TCCGCCCCGACGCCGGACAGCTCCCTCCTCGACGCCGCCTTCGCCGACCTCCTCCA
CGCGCACTTCTACGAGTCCTGCCCCCTACCTCAAGTTCGCGCACTTCACCGCCAAC
CAGGCCATCCTGGAGGCGTTCGCCGGCTGCCGCCGCGTGCACGTCGTCGACTTCG
GCATCAAGCAGGGGATGCAGTGGCCCCGCACTTCTCCAGGCCCTCGCCCTCCGTCC
CGGCGGCCCTCCCTCGTTCCGCCTCACCGGCGTCCGGCCCCCGCAGCCGGACGAG
ACCGACGCCCTGCAGCAGGTGGGCTGGAAGCTCGCCCAGTTCGCGCACACCATC
CGCGTCGACTTCCAGTACCGCGGCCTCGTCGCCGCCACGCTCGCGGACCTGGAGC
CGTTCATGCTGCAGCCGGAGGGCGAGGAGGACCCGAACGAGGAGCCCGAGGTA
TCGCCGTCAACTCAGTCTTCGAGATGCACCGGCTGCTCGCGCAGCCCGGCGCCCT
GGAGAAGGTCCTGGGCACCGTGC GCGCCGTGCGGCCAGGATCGTCACCGTGGT
GGAGCAGGAGGCGAATCAAACTCCGGCACATTCCTGGACCGCTTCACCGAGTC
TCTGCACTACTACTCCACCATGTTTCGATTCCCTCGAGGGCGGCAGCTCCGGCGGC
GGCCCATCCGAAGTCTCATCGGGGGCTGCTGCTGCTCCTGCCGCCGCCGGCACGG
ACCAGGTCATGTCCGAGGTGTACCTCGGCCGGCAGATCTGCAACGTGGTGGCCTG
CGAGGGGGCGGAGCGCACAGAGCGCCACGAGACGCTGGGCCAGTGGCGGAACC
GGCTGGGCAACGCCGGGTTCGAGACCGTCCACCTGGGCTCCAATGCCTACAAGC
AGGCGAGCACGCTGCTGGCGCTCTTCGCCGGCGGGCGACGGCTACAAGGTGGAGG
AGAAGGAAGGCTGCCTGACGCTGGGGTGGCACACGCGCCCCGCTGATCGCCACCT
CGGCATGGCGCCTGGCCGGGGCCGTGATCTCGCGAGTTTTGAACGCTGTAAGTACA
CATCGTGAGCATGGAGGACAACACAGCCCCGGCGGGCCGCCCGGCTCTCCGGCG
AACGCACGCACGCACGCACTTGAAGAAGAAGAAGCTAAATGTCATGTCAGTGAG
CGCTGAATTGCAGCGACCGGCTACGATCGATCGGGCTACGGGTGGTTCCGTCCGT
CTGGCGTGAAGAGGTGGATGGACGACGAACTCCGAGCCGACCACCACCGGCATG
TAGTAATGTAATCCCTTCTTCGTTCCCAGTTCTCCACCGCCTCCATGATCACCCGT
AAAACCTCCTAAGCCCTATTATTACTACTATTATGTTTAAATGTCTATTATTGCTAT
GTGTAATTCTCCAACCGCTCATATCAAAATAAGCACGGGCCGGAAAAA
AA
AA

Figure 7b

ARSSVVEAAPPVAAAANATPALPVVVVDTEAGIRLVHALLACAEAVQQENLSAAE
ALVKQIPLLAASQGGAMRKVAA YFGEALARRVFRFRPQPDSSLLDAFADLLHAHF
YESCPYLKFAHFTANQAILEAFAGCRRVHVVDGFIKQGMQWPALLQALALRPGGPPS
FRLTGVGPPQPDETDALQQVGWKLQFAHTIRVDFQYRGLVAATLADLEPFMLQPE
GEEDPNEEPEVIAVNSVFEMHRLLAQPGALEKVLGTVRAVRPRIVTVVEQEANHN
SQTFLDRFTESLHYYSTMFDSLEGGSSGGPSEVSSGAAAAPAAAGTDQVMSEVYLGR
QICNVVACEGAERTERHETLGQWRNRLGNAGFETVHLGSNAYKQASTLLALFAGGD
GYKVEEKEGCLTLGWHTRPLIATSAWRLAGP

Figure 8a

ATAGAGAGGCGAGGTAGCTCGCGGATCATGAAGCGGGAGTACCAGGACGCCGG
 AGGGAGCGGCGGCGGCGGTGGCGGCATGGGCTCGTCCGAGGACAAGATGATGGT
 GTCGGCGGCGGCGGCGGGGAGGGGGAGGAGGTGGACGAGCTGCTGGCGGCGCTCG
 GGTACAAGGTGCGCGCCTCCGACATGGGCGGACGTGGGCGCAGAAAGTGGAGCAGC
 TCGAGATGGCCATGGGGATGGGCGGCGTGGGCGCCGGCGCCCGCCCCGACGACA
 GCTTCGCCACCCACCTCGCCACGGACACCGTGCCTACAACCCACCGACCTGTC
 GTCTTGGGTTCGAGAGCATGCTGTCGGAGCTCAACGCGCCGCGCGCCCGCTCCCG
 CCCGCCCCGCGAGCTCAACGCCTCCACCTCCTCCACCGTCACGGGCAGCGGCGGCT
 ACTTCGATCTCCCGCCCTCCGTCGACTCCTCCAGCAGCATCTACGCGCTGCGGCC
 GATCCCCCTCCCCGGCGCGCGACGGCGCCGGCGGACCTGTCCGCGGACTCCGTG
 CGGGATCCCAAGCGGATGCGCACTGGCGGGAGCAGCACCTCGTCGTCATCCTCCT
 CCTCGTCGTCTCTCGGTGGGGGCGCCAGGAGCTCTGTGGTGGAGGCTGCCCCGCC
 GGTCGCGGCGCGCGGCCAACGCGACGCCCGCGCTGCCGGTCGTCGTGGTCGACAC
 GCAGGAGGCCGGGATTTCGGCTGGTGCACGCGCTGCTGGCGTGCGCGGAGGCCGT
 GCAGCAGGAGAACCTCTCCGCCGCGGAGGCGCTGGTGAAGCAGATACCCTTGCT
 GGCCGCGTCCAGGGCGGCGCGATGCGCAAGGTCGCCGCTACTTCGGCGAGGC
 CCTCGCCCGCGCGTCTTCCGCTTCCGCCCGCAGCCGGACAGCTCCCTCCTCGAC
 GCCGCTTCGCCGACCTCCTCCACGCGCACTTCTACGAGTCTGCCCTACCTCAA
 GTTCGCGCACTTCACCGCCAACCAGGCCATCCTGGAGGCGTTCCGCCGGCTGCCGC
 CGCGTGCACGTCGTCGACTTCGGCATCAAGCAGGGGATGCAGTGGCCCGCACTTC
 TCCAGGCCCTCGCCCTCCGTCCCGGCGGCCCTCCCTCGTTCCGCTCACCGGCGTC
 GGCCCCCGCAGCCGGACGAGACCGACGCCCTGCAGCAGGTGGGCTGGAAGCTC
 GCCCAGTTCGCGCACACCATCCGCGTCGACTTCCAGTACCGCGGCCCTCGTCGCCG
 CCACGCTCGCGGACCTGGAGCCGTTTCATGCTGCAGCCGGAGGGCGAGGAAGACC
 CGAACGAGGAGCCCGAGGTAATCGCCGTCAACTCAGTCTTCGAGATGCACCGGC
 TGCTCGCGCAGCCCGGCGCCCTGGAGAAGGTCTGGGCACCGTGCGCGCCGTGC
 GGCCAGGATCGTCACCGTGGTGGAGCAGGAGGCGAATCACAACCTCCGGCACAT
 TCCTGGACCGCTTCACCGAGTCTCTGCACTACTACTCCACCATGTTTCGATTCCCTC
 GAGGGCGGCAGCTCCGGCGGCGGCCCATCCGAAGTCTCATCGGGGGCTGCTGCT
 GCTCCTGCCGCCCGCGGCACGGACAGGTTCATGTCCGAGGTGTACCTCGGCCGGC
 AGATCTGCAACGTGGTGGCCTGCGAGGGGGCGGAGCGCACAGAGCGCCACGAGA
 CGCTGGGCCAGTGGCGGAACCGGCTGGGCAACGCCGGGTTCGAGACCGTCCACC
 TGGGCTCCAATGCCTACAAGCAGGCGAGCACGCTGCTGGCGCTCTTCGCCGGCGG
 CGACGGCTACAAGGTGGAGGAGAAGGAAGGCTGCCTGACGCTGGGGTGGCACAC
 GCGCCCGCTGATCGCCACCTCGGCATGGCGCCTGGCCGGGGCGGTGATCTCGCGAG
 TTTTGAACGCTGTAAGTACACATCGTGAGCATGGAGGACAACACAGCCCCGGCG
 GCCGCCCCGGCTCTCCGGCGAACGCACGCACGCACGCACTTGAAGAAGAAGAAG
 CTAATGTCATGTCAGTGAGCGCTGAATTGCAGCGACCGGCTACGATCGATCGGG
 CTACGGGTGGTTCCGTCCGTCTGGCGTGAAGAGGTGGATGGACGACGAACCTCCG

Figure 8b

MKREYQDAGGSGGGGGGMGSSEDKMMVSAAGEGEEVDELLAALGYKVRASDM
 ADVAQKLEQLEMAMGMGGVGAGAAPDDSFATHLATDTVHYNPTDLSSWVESMLS
 ELNAPPPPLPPAPQLNASTSSTVTGSGGYFDLPPSVDSSSSIYALRPIPSAGATAPADL
 SADSVRDPKRMRTGGSSTSSSSSSSSSLGGGARSSVVEAAPPVAAAANATPALPVVV
 VDTQEAGIRLVHALLACAEAVQQENLSAAEALVKQIPLLAASQGGAMRKVAAYFGE
 ALARRVFRFRPQPDSSLLDAAFADLLHAHFYESCPYLKFAHFTANQAILEAFAGCRR
 VHVVDGFIKQGMQWPALLQALALRPGPPSFRLTGVGPPQPDETDALQQVGVKLA
 QFAHTIRVDFQYRGLVAATLADLEPFMLQPEGEEDPNEEPEVIAVNSVFEMHRLLAQ
 PGAELKVLGTVRAVRPRIVTVVEQEANHNSGTFLDRFTESLHYSTMFDSLEGGSSG
 GPSEVSSGAAAAPAAAGTDQVMSEVYLGRQICNVVACEGAERTERHETLGQWRN
 RLGNAGFETVHLGSNAYKQASTLLALFAGGDGYKVEEKEGCLTLGWHTRPLIATSA
 WRLAGP

17/22

Figure 9a

TTTCGCCTGCCGCTGCTATTAATAATTGCCTTCTTGTTTCCCCGTTTTTCGCCCCAG
CCGCTTCCCCCCTCCCCTACCCTTTCTTCCCCACTCGCACTTCCCAACCCTGGAT
CCAAATCCCAAGCTATCCCAGAACCGAAACCGAGGCGCGCAAGCCATTATTAGC
TGGCTAGCTAGGCCTGTAGCTCCGAAATCATGAAGCGCGAGTACCAAGACGCCG
GCGGGAGTGGCGGGCGACATGGGCTCCTCCAAGGACAAGATGATGGCGGGCGGCGG
CGGGAGCAGGGGAACAGGAGGAGGAGGACGTGGATGAGCTGCTGGCCGCGCTC
GGGTACAAGGTGCGTTCTGTCGGATATGGCGGACGTGCGCGCAGAAGCTGGAGCAG
CTCGAGATGGCCATGGGGATGGGCGGCGTGGGCGGCGCCGGGCGCTACCGCTGAT
GACGGGTTCGTGTCGCACCTCGCCACGGACACCGTGCCTACAATCCCTCCGACC
TGTCGTCCTGGGTGCGAGAGCATGCTGTCCGAGCTCAACGCGCCCCCAGCGCCGCT
CCCGCCCCGCGACGCCGGCCCCAAGGCTCGCGTCCACATCGTCCACCGTCACAAGT
GGCGCCGCGCCGGTGCTGGCTACTTCGATCTCCCGCCCCGCGTGGACTCGTCCA
GCAGTACCTACGCTCTGAAGCCGATCCCCTCGCCGGTGGCGGGCGCCGTTCGGCCGA
CCCGTCCACGGA CTGCGCGCGGGAGCCCAAGCGGATGAGGACTGGCGGGCGGCAG
CACGTCGTCCTCCTCTTCCTCGTCGTCATCCATGGATGGCGGTGCGACTAGGAGCT
CCGTGGTTCGAAGCTGCGCCGCGGCGACGCAAGCATCCGCGGGCGGCCAACGGGC
CCGCGGTGCCGGTGGTGGTGGTGGACACGCGAGGAGGCCGGGATCCGGCTCGTGC
ACGCGCTGCTGGCGTGCGCGGAGGCCGTGCGAGCAGGAGAACTTCTCTGCGGCGG
AGGCGCTGGTCAAGCAGATCCCCATGCTGGCCTCGTCGCGAGGGCGGTGCCATGC
GCAAGGTCGCCGCCTACTTCGGCGAGGCGCTTGCCCCGCCGCGTGTATCGCTTCCG
CCCGCCACCGGACAGCTCCCTCCTCGACGCCGCCTTCGCCGACCTCTTGACGCG
CACTTCTACGAGTCCTGCCCCCTACCTGAAGTTCGCCCACTTCACCGCGAACCAGG
CCATCCTCGAGGCCTTCGCCGGCTGCCGCCGCGTCCACGTCGTCGACTTCGGCAT
CAAGCAGGGGATGCAGTGGCCGGCTCTTCTCCAGGCCCTCGCCCTCCGCCCTGGC
GGCCCCCGTTCGTTCCGGCTCACCGGCGTCGGGCCGCGCAGCCCGACGAGACC
GACGCCTTGCAGCAGGTGGGCTGGAACTTGCCAGTTTCGCGCACACCATCCGCG
TGGACTTCCAGTACCGTGGCCTCGTCGCGGCCACGCTCGCCGACCTGGAGCCGTT
CATGCTGCAACCGGAGGGCGATGACACGGATGACGAGCCCGAGGTGATCGCCGT
GAACTCCGTGTTTCGAGCTGCACCGGCTTCTTGCGCAGCCCGGTGCCCTCGAGAAG
GTCCTGGGCACGGTGCGCGCGGTGCGGCCGAGGATCGTGACCGTGGTCGAGCAG
GAGGCCAACCACA ACTCCGGCACGTTCTTCGACCGCTTCACCGAGTCGCTGCACT
ACTACTCCACCATGTTTCGATTCTCTCGAGGGCGCCGGCGCCGGCTCCGGCCAGTC
CACCGACGCCTCCCCGGCCGCGGCGGCGCACGACACGAGGTATGTTCGGAGGT
GTACCTCGGCCGGCAGATCTGCAACGTGGTGGCGTGCGAGGGCGCGGAGCGCAC
GGAGCGCCACGAGACGCTGGGCCAGTGGCGCAGCCGCCTCGGCGGCTCCGGGTT
CGCGCCCGTGCACCTGGGCTCCAATGCCTACAAGCAGGCGAGCACGCTGCTGGC
GCTCTTCGCCGGCGGCGACGGGTACAGGGTGGAGGAGAAGGACGGGTGCCTGAC
CCTGGGGTGGCATAACGCGCCCGCTCATCGCCACCTCGGCGTGGCGCGTCCGCCGCC
GCCGCCGCTCCGTGATCAGGGAGGGGTGGTTGGGGCTTCTGGACGCCGATCAAG
GCACACGTACGTCCCCTGGCATGGCGCACCTCCCTCGAGCTCGCCGGCACGGGT
GAAGCTACCCGGGGGATCCACTAATTCTAAAACGGCCCCACCGCGGTGGAATC
CACCTTTTGTTCCTTTA

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Figure 9b

MKREYQDAGGSGGDMGSSKDKMMAAAAGAGEQEEEDVDELLAALGYKVRSSDM
ADVAQKLEQLEMAMGMGGVGGAGATADDGFVSHLATDTVHYNPSDLSSWVESML
SELNAPPAPLPPATPAPRLASTSSTVTSGAAAGAGYFDLPPAVDSSSSTYALKPIPSV
AAPSADPSTDSAREPKRMRTGGGSTSSSSSSSSSSMDGGRTRSSVVEAAPPATQASAAA
NGPAVPVVVVDTQEAGIRLVHALLACAEAVQQENFSAAEALVKQIPMLASSQGGAM
RKVAAAYFGEALARRVYRFRPPPDSSLLDAAFADLLHAHFYESCPYLKFAHFTANQAI
LEAFAGCRRVHVVDGFIKQGMQWPALLQALALRPGGPPSFRLTGVGPPQPDETDAL
QQVGWKLAAQFAHTIRVDFQYRGLVAATLADLEPFMLQPEGDDTDDEPEVIAVNSVF
ELHRLLAQPGALEKVLGTVRAVRPRIVTVVEQEANHNSGTFLDRFTESLHYYSTMF
SLEGAGAGSGQSTDASPAAGGTDQVMSEVYLGRQICNVVACEGAERTERHETLGQ
WRSRLGGSGFAPVHLGSNAYKQASTLLALFAGGDGYRVEEKDGCLTLGWHTRPLIA
TSAWRVAAAAAP

Figure 10

maiz-fin	YKVRSSDMAD	55
rhrt-fina	YKVRSSDMAD	55
rice-fin	YKVRSSDMAD	55
gai	YKVRSSDMAD	44
maiz-fin	MLSELNAPPA	115
rhrt-fina	MLSELNAPPA	114
rice-fin	MLSELNAPPA	114
gai	MLSELNAPPA	93
maiz-fin	VAA.PSADPS	174
rhrt-fina	AGATAPADLS	168
rice-fin	VVATADPSA	171
gai	A ILNQFA	114
maiz-fin	NGPAVPVVVV	234
rhrt-fina	ATPALPVVVV	225
rice-fin	NAPAVPVVVV	231
gai	AESTRHVVVV	159
maiz-fin	AYFGEALARR	294
rhrt-fina	AYFGEALARR	285
rice-fin	AYFGEALARR	256
gai	TYFAEALARR	219
maiz-fin	RRVHVVDGFI	354
rhrt-fina	RRVHVVDGFI	345
rice-fin	RRVHVVDGFI	256
gai	KRVHVVDGFI	277
maiz-fin	HTIRVDFQYR	414
rhrt-fina	HTIRVDFQYR	405
rice-fin	HTIRVDFQYR	256
gai	EALHVDFEYR	337
maiz-fin	VLGTVRAVRP	473
rhrt-fina	VLGTVRAVRP	465
rice-fin	VLGTVRAVRP	256
gai	VLGVVNQKPK	392

20/22

Figure 10 (Continued)

maiz-fin	R I V T V V E Q E A	N H N S G T F L D R	F T E S L H Y Y S T	M F D S L E G A G A	G S G Q S T D A S P	A A A G G T	529
rht-fina	R I V T V V E Q E A	N H N S G T F L D R	F T E S L H Y Y S T	M F D S L E G G S S	G G G P S E V S S G	A A A A P A A A G T	525
rice-fin	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	256
gai	E I F T V V E Q E S	N H N S P I F L D R	F T E S L H Y Y S T	M F D S L E G V P S	G Q . . . . .	. . . . .	434
maiz-fin	D Q V M S E V Y L G	R Q I C N V V A C E	G A E R T E R H E T	L G Q W R S R L G G	S G F A P V H L G S	N A Y K Q A S T L L	589
rht-fina	D Q V M S E V Y L G	R Q I C N V V A C E	G A E R T E R H E T	L G Q W R N R L G N	A G F E T V H L G S	N A Y K Q A S T L L	585
rice-fin	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	256
gai	D K V M S E V Y L G	K O I C N V V A C E	G P E R V E R H E T	L S Q W R N R E G S	A G F A A H I G S	N A Y K Q A S M L L	494
maiz-fin	A L F A G G D G Y R	V E E K D G G C L T L	G W H T R P L I A T	S A W R V A A A A A	P . . . . .	. . . . .	630
rht-fina	A L F A G G D G Y R	V E E K E G G C L T L	G W H T R P L I A T	S A W R L A G P . .	. . . . .	. . . . .	623
rice-fin	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	256
gai	A L F N G G G G Y R	V E E S D G G C L M L	G W H T R P L I A T	S A W K L S T N . .	. . . . .	. . . . .	532

Figure 11a

TACCAAGACGCCGGCGGGAGTGGCGGCGACATGGGCTCCTCCAAGGACAAGATG
ATGGCGGCGGCGGCGGGAGCAGGGGAACAGGAGGAGGAGGACGTGGATGAGCT
GCTGGCCGCGCTCGGGTACAAGGTGCGTTCGTTCGGATATGGCGGGGCTGGAGCA
GCTCGAGATGGCCATGGGGATGGGCGGCGTGGGCGGCGCCGGCGCTACCGCTGA
TGACGGGTTCGTGTCGCACCTCGCCACGGACACCGTGCACTACAATCCCTCCGAC
CTGTCGTCCTGGGTCGAGAGCATGCTGTCCGA

Figure 11b

YQDAGGSGGDMGSSKDKMMAAAAGAGEQEEEDVDELLAALGYKVRSSDMAGLEQ
LEMAMGMGGVGGAGATADDGFVSHLATDTVHYNPSDLSSWVESMLS

Figure 11c

TCCTCCAAGGACAAGATGATGGCGGCGGCGGCGGGAGCAGGGGAACAGGAGGA
GGAGGACGTGGATGAGCTGCTGGCCGCGCTCGGGTACAAGGTGCGTTCGTTCGGA
TATGGCGGACGTCGCGCAGAAGCTGGAGCAGCTCGAGATGGCCATGGGGATGGG
CGGCGTGGGCGGCGCCGGCGCTACCGCTGATGACGGGTTCGTGTCGCACCTGTCG
TCCTGGGTCGAGAGCATGCTGTCCGAGCTCAACGCGCCCCCAGCGCCGCTCCCGC
CCGCGACGCGCGCCCAAGGCTCGCGTCCACATCGTCCACCGTCACAAGTGGCGC
CGCCGCGGTGCTGGCTACTTCGATCTCCCGCCCGCCGTGGACTC

Figure 11d

SSKDKMMAAAAGAGEQEEEDVDELLAALGYKVRSSDMADVAQKLEQLEMAMGM
GGVGGAGATADDGFVSHLSSWVESMLSELNAPPAPLPPATPAPRLASTSSTVTSGAA
AGAGYFDLPPAVD

22/22

Figure 12a

GCGGCGCTCGGGTACAAGGTGCGCGCCTCCGACATGGCGGACGTGGCGCAGAAG
CTGGAGCAGCTCGAGATGGCCATGGGGATGGGCGGGCGTGGGCGCCGGCGCCGCC
CCCGACGACAGCTTCGCCACCCACCTCGCCACGGACACCGTGCACTACAACCCCA
CCGACCTGTCGTCTTGGGTCGAGAGCATGCTGTCGGAGCTCAACGCCTCCACCTC
CTCCACCGTCACGGGCAGCGGCGGCTACTTCGATCTCCCGCCCTCCGTCGACTCC
TCCAGCAGCATCTACGCGCTGCGGCCGATCCCCTCCCCGGCCGGCGCGACGGCGC
CGGCCGACCTGTCCGCCGACTCCGTGCGGGGATCCCAAGCGGATGCGCACTGGCG
GGAGCAGCACCTCGTCGTCATCCTCCTCCTCGTC

Figure 12b

AALGYKVRASDMADVAQKLEQLEMAMGMGGVGAGAAPDDSFATHLATDTVHYN
PTDLSSWVESMLSELNASTSSTVTGSGGYFDLPPSVDSSSSIYALRPIPSAGATAPAD
LSADSVRDPKRMRTGGSSTSSSSSSS

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